INFORMATION PAPER

SUBJECT: Kaneohe-Kailua Area Flood Control Project, Kaneohe, Oahu, Hawaii

Project Location. The project is located at the Kamooalii-Kaneohe Stream drainage basin on the east coast of Oahu. The drainage basin is bounded on the west and south by the Koolau Mountain Range, on the east by the remnants of Kaneohe volcanic cone, and on the north by Kaneohe Bay.

Authorization. The Flood Control Act of 1970 authorized the project.

Local Sponsor. The $25 million flood control project is a joint federal and City and County of Honolulu endeavor.

Completed Work. The project (better known as K-K Dam) consists of a dam and reservoir on Kamooalii Stream, channel improvements at the mouth of Kaneohe Stream, and an allied public recreation park with fish and wildlife enhancement features. The park's name is Ho'omaluhia, meaning the *Place of Peace* in the Hawaiian language. Construction began in April 1976 and finished in July 1980 when it was turned over to the city to operate and maintain. The earth fill dam embankment is 2,200 feet long and 76 feet high. The reservoir design calls for a 32-acre permanent and 152-acre maximum pool.

In the last year of construction, the dam functioned as designed and prevented $1.5 million in flood damages in the Keapuka area during a localized storm on March 18-19, 1980 when there was 9.7 inches of rainfall at the project site. Over 5 inches of rain fell over a 2-hour period on March 18. The dam prevented an additional $2.2 million in flood damages during a heavy rainfall in January 1988 when the flood pool at the dam rose 20 feet. Ho'omaluhia includes 223 acres of land above the maximum flood control pool elevation and optimizes use of land and water areas required for flood control while ensuring the preservation of open space in a highly urbanized area. The cost of the completed project was $25,552,400 (federal: $19,884,100; non-federal: $5,668,300). The local sponsor is the City and County of Honolulu.

Present Status. The project is inspected annually. To date, the general maintenance of the project is very good and the facility is considered in acceptable condition without any detrimental conditions which would affect its flood control function.